

ductruong

\* \* \* \* \* STN Columbus \* \* \* \* \*

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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0.22

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FILE 'USPATFULL' ENTERED AT 10:54:34 ON 29 JUL 2009

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FILE 'USPATOLD' ENTERED AT 10:54:34 ON 29 JUL 2009

CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 10:54:34 ON 29 JUL 2009

CA INDEXING COPYRIGHT (C) 2009 AMERICAN CHEMICAL SOCIETY (ACS)

=> s polyazole# and polymer#

L1 351 POLYAZOLE# AND POLYMER#

=> s l1 and intrinsic viscosity

L2 64 L1 AND INTRINSIC VISCOSITY

=> s l2 and (aromatic tetra-amino compound# or tetraamino compound#) and aromatic carboxylic acid# and ester#

3 FILES SEARCHED...

7 FILES SEARCHED...

L3 32 L2 AND (AROMATIC TETRA-AMINO COMPOUND# OR TETRAAMINO COMPOUND#) AND AROMATIC CARBOXYLIC ACID# AND ESTER#

=> s l3 and heteroaromatic diaminocarboxylic acid#

L4 28 L3 AND HETEROAROMATIC DIAMINOCARBOXYLIC ACID#

=> s l4 and heat? and cool?

L5 27 L4 AND HEAT? AND COOL?

=> s l5 and inert gas

L6 27 L5 AND INERT GAS

=> s l6 and particle#

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L7 14 L6 AND PARTICLE#

=> s 17 and comminut?

L8 8 L7 AND COMMINUT?

=> d 18 1-8

L8 ANSWER 1 OF 8 EPFULL COPYRIGHT 2009 EPO/FIZ KA/LNU on STN

AN 2004:160174 EPFULL EDP 20060223 ED 20060223 UP 20060830  
DUPD 20060830 DUPW 200635

TIEN Long-life membrane electrode assemblies.

TIFR Unites membrane-electrodes a longue duree.

TIDE Membran-Elektrodeneinheiten mit langer Lebensdauer.

IN The designation of the inventor has not yet been filed

PA Pemeas GmbH, 65926 Frankfurt am Main, DE

PAN 4944860

AG Luderschmidt, Schueler & Partner, Patentanwaelte, Industriepark Hoechst,  
Geb. F821, 65926 Frankfurt am Main, DE

AGN 101418

DT Patent

LAF English

LA English

LAP English

TL German; English; French

PIT EPA2 Application published without search report

PI EP 1624512 A2 20060208

DS AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO  
SE SI SK TR

EXTENSION STATES: AL HR LT LV MK

AI EP 2004-25081 A 20041021

PRAI EP 2004-18600 A 20040805

IPCI H01M0008-02 [I,A ]; H01M0008-10 [I,A ]

H01M0008-02 [I,C\*]; H01M0008-10 [I,C\*]

L8 ANSWER 2 OF 8 PCTFULL COPYRIGHT 2009 Univentio on STN

AN 2006013108 PCTFULL ED 20060331 EW 200606

TIEN LONG-LIFE MEMBRANE ELECTRODE ASSEMBLIES

TIFR ENSEMBLES ELECTRODES-MEMBRANE LONGUE DUREE

IN HOPPES, Glen, Fuchstanzstrasse 20, 60489 Frankfurt, DE;

PUFFER, Raymond, 196 Boght Road, Watervliet, NY 12189, US

PA PEMEAS GMBH, Industriepark Hoechst, 65926 Frankfurt am Main, DE

AG DOERR, Klaus et al., Industriepark Hoechst Geb. F821, 65926 Frankfurt am  
Main, DE

LAF English

LA English

DT Patent

PI WO 2006013108 A2 20060209

DS W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR  
CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID  
IL IN IS JP KE KG KM KP KR KZ LC LK LR LS LT LU LV MA MD  
MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RU SC  
SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN  
YU ZA ZM ZW

RW (ARIPO): BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW

RW (EAPO): AM AZ BY KG KZ MD RU TJ TM

RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LT  
LU LV MC NL PL PT RO SE SI SK TR

RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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PRAI EP 2004-04018600 20040805  
EP 2004-04025081 20041021  
US 2004-60620747 20041021  
AI WO 2005-EP8488 A 20050805  
IPCI H01M0008-02 [I,A]; H01M0008-10 [I,A]; H01M0008-24 [I,A]  
H01M0008-02 [I,C\*]; H01M0008-10 [I,C\*]; H01M0008-24 [I,C\*]  
  
L8 ANSWER 3 OF 8 USPATFULL on STN  
AN 2008:305837 USPATFULL  
TI Membrane-Electrode Units and Fuel Cells Having a Long Service Life  
IN Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
Schmidt, Thomas, Moerfelden-Walldorf, GERMANY, FEDERAL REPUBLIC OF  
Padberg, Christoph, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF  
Ott, Detlef, Sulzbach, GERMANY, FEDERAL REPUBLIC OF  
PA BASF Fuel Cell GmbH, Frankfurt Am Main, GERMANY, FEDERAL REPUBLIC OF  
(non-U.S. corporation)  
PI US 20080268321 A1 20081030  
AI US 2006-63339 A1 20060805 (12)  
WO 2006-EP7767 20060805  
20080710 PCT 371 date  
PRAI DE 2005-102005038195 20050812  
DT Utility  
FS APPLICATION  
LN.CNT 1775  
INCL INCLM: 429/034.000  
INCLS: 429/040.000  
NCL NCLM: 429/034.000  
NCLS: 429/040.000  
IC IPCI H01M0002-00 [I,A]; H01M0004-00 [I,A]  
IPCR H01M0002-00 [I,C]; H01M0002-00 [I,A]; H01M0004-00 [I,C];  
H01M0004-00 [I,A]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 4 OF 8 USPATFULL on STN  
AN 2008:214139 USPATFULL  
TI Fuel Cells With Reduced Weight and Volume  
IN Schmidt, Thomas, Morfelden-Walldorf, GERMANY, FEDERAL REPUBLIC OF  
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
PA BASF Fuel Cell GmbH, Frankfurt am Main, GERMANY, FEDERAL REPUBLIC OF  
(non-U.S. corporation)  
PI US 20080187807 A1 20080807  
AI US 2006-913574 A1 20060503 (11)  
WO 2006-EP4122 20060503  
20080303 PCT 371 date  
PRAI DE 2005-102005020604 20050503  
DT Utility  
FS APPLICATION  
LN.CNT 1597  
INCL INCLM: 429/030.000  
INCLS: 429/034.000; 296/231.000  
NCL NCLM: 429/030.000  
NCLS: 029/623.100; 429/034.000  
IC IPCI H01M0008-10 [I,A]; H01M0008-02 [I,A]  
IPCR H01M0008-10 [I,C]; H01M0008-10 [I,A]; H01M0008-02 [I,C];  
H01M0008-02 [I,A]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 5 OF 8 USPATFULL on STN  
AN 2008:137565 USPATFULL

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TI High-Molecular-Weight Polyazoles  
IN Calundann, Gordon, North Plainfield, NJ, UNITED STATES  
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
Benicewicz, Brian, North Loudonville, NY, UNITED STATES  
Dawkins, Bobby G., Charlotte, NC, UNITED STATES  
Baker, J. Dean, Rock Hill, SC, UNITED STATES  
Joiner, Rita H., Rock Hill, SC, UNITED STATES  
PI US 20080119634 A1 20080522  
AI US 2003-538190 A1 20031202 (10)  
WO 2003-EP13529 20031202  
20060518 PCT 371 date  
PRAI DE 2002-10258580 20021216  
DT Utility  
FS APPLICATION  
LN.CNT 732  
INCL INCLM: 528/363.000  
NCL NCLM: 528/363.000  
IC IPCI C08G0073-18 [I,A]; C08G0073-00 [I,C\*]  
IPCR C08G0073-00 [I,C]; C08G0073-18 [I,A]; C08G0073-06 [I,A];  
C08G0073-22 [I,A]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 6 OF 8 USPATFULL on STN  
AN 2007:284336 USPATFULL  
TI Membrane Electrode Units and Fuel Cells with an Increased Service Life  
IN Schmidt, Thomas, Frankfurt, GERMANY, FEDERAL REPUBLIC OF  
Padberg, Christoph, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF  
Hoppes, Glen, Frankfurt, GERMANY, FEDERAL REPUBLIC OF  
Ott, Detlef, Sulzbach, GERMANY, FEDERAL REPUBLIC OF  
Rat, Francis, Ransbach-Baumbach, GERMANY, FEDERAL REPUBLIC OF  
Jantos, Marc, Bad Homburg, GERMANY, FEDERAL REPUBLIC OF  
PA PEMEAS GMBH, Frankfurt am Main, GERMANY, FEDERAL REPUBLIC OF, 65926  
(non-U.S. corporation)  
PI US 20070248889 A1 20071025  
AI US 2005-572344 A1 20050721 (11)  
WO 2005-EP7946 20050721  
20070508 PCT 371 date  
PRAI DE 2004-102004035309 20040721  
DT Utility  
FS APPLICATION  
LN.CNT 1788  
INCL INCLM: 429/309.000  
NCL NCLM: 429/309.000  
IC IPCI H01M0006-18 [I,A]  
IPCR H01M0006-18 [I,C]; H01M0006-18 [I,A]  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 7 OF 8 USPATFULL on STN  
AN 2007:284310 USPATFULL  
TI Membrane-Electrode Unit and Fuel Elements with Increased Service Life  
IN Pawlik, Jurgen, Battenberg, GERMANY, FEDERAL REPUBLIC OF  
Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF  
Schmidt, Thomas, Frankfurt, GERMANY, FEDERAL REPUBLIC OF  
Padberg, Christoph, Wiesbaden, GERMANY, FEDERAL REPUBLIC OF  
Hoppes, Glen, Frankfurt, GERMANY, FEDERAL REPUBLIC OF  
PI US 20070248863 A1 20071025  
AI US 2005-573105 A1 20050805 (11)  
WO 2005-EP8487 20050805  
20070626 PCT 371 date

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PRAI EP 2004-18600 20040805

DT Utility

FS APPLICATION

LN.CNT 1762

INCL INCLM: 429/030.000

INCLS: 427/115.000; 429/306.000

NCL NCLM: 429/030.000

NCLS: 427/115.000; 429/306.000

IC IPCI H01M0008-10 [I,A]

IPCR H01M0008-10 [I,C]; H01M0008-10 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 8 OF 8 USPATFULL on STN

AN 2007:174115 USPATFULL

TI HIGH-MOLECULAR-WEIGHT POLYAZOLES USED AS PROTON CONDUCTING  
MEMBRANES

IN Calundann, Gordon, North Plainfield, NJ, UNITED STATES

Uensal, Oemer, Mainz, GERMANY, FEDERAL REPUBLIC OF

Benicewicz, Brian, Loudonville, NY, UNITED STATES

Dawkins, Bobby G., Charlotte, NC, UNITED STATES

Baker, J. Dean, Rock Hill, SC, UNITED STATES

Joiner, Rita H., Rock Hill, SC, UNITED STATES

PI US 20070151926 A1 20070705

AI US 2007-684826 A1 20070312 (11)

RLI Division of Ser. No. US 2002-538190, PENDING A 371 of International Ser.  
No. WO 2003-EP13529, filed on 2 Dec 2003

PRAI DE 2002-10258580 20021216

DT Utility

FS APPLICATION

LN.CNT 725

INCL INCLM: 210/650.000

NCL NCLM: 210/650.000

IC IPCI B01D0061-00 [I,A]

IPCR B01D0061-00 [I,C]; B01D0061-00 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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